

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208

Miami, Florida 33175-2474 T (786) 315-2590 . F (786) 315-2599

www.miamidade.gov/economy

Arrow United Industries 450 Riverside Drive Wyalusing, PA 18853

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model EAV-81 8" Deep Aluminum Louver

APPROVAL DOCUMENT: Drawing No. 1624, titled "Model EAV-81 Impact Louver System", sheets 1 through 3 of 3, dated 11/12/2008, with revision A1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren. W. Schaefer, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 11-1117.08 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

(MIAMI-DADE COUNTY)
APPROVED

Stran 1/2/24/2013 NOA No. 13-1017.03 Expiration Date: February 4, 2019 Approval Date: January 2, 2014 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS "Submitted under NOA # 11-1117.08"

1. Drawing No. 1624, titled "Model EAV-81 Impact Louver System", sheets 1 through 3 of 3, dated 11/12/2008, with revision A1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren W. Schaefer, P.E.

B. TESTS "Submitted under NOA No. 08-1202.08"

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94 and ASTM E1886/1996 Level E.
 - 3) Cyclic Wind Pressure per FBC, TAS 203-94 and ASTM E1886/1996.

along with marked-up drawings and installation diagram, of their A-820 Aluminum Louver System", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0812-08**, dated 10/14/2008, signed and sealed by Vinu J. Abraham, P.E.

2. Test report on Wind and Wind-Driven Rain Resistance per TAS 100(A)-95 of their A-820 Louver, prepared by PRI Construction Materials Technologies, LLC, and Report No. 009-02-02, dated 04/28/2008, signed and sealed by Duc T. Nguyen, P.E.

C. CALCULATIONS "Submitted under NOA No. 08-1202.08"

1. Anchoring calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/24/2008, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

- 1. Statement letter of code conformance to 2010 FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/03/2013, signed and sealed by Warren W. Schaefer, P.E.
- 2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 09/04/2013, signed and sealed by Warren W. Schaefer, P.E.

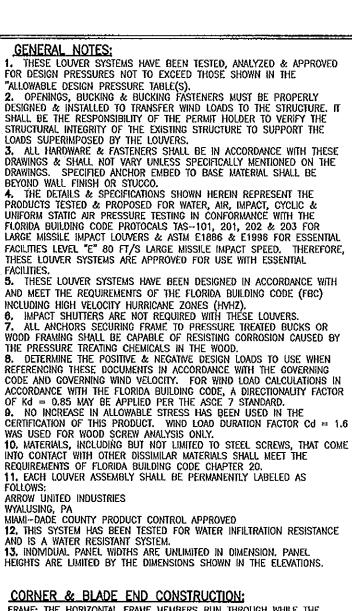
"Submitted under NOA No. 08-1202.08"

3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 10/14/2008, signed and sealed by Vinu J. Abraham, P.E.

Carlos M. Utrera, P.E.

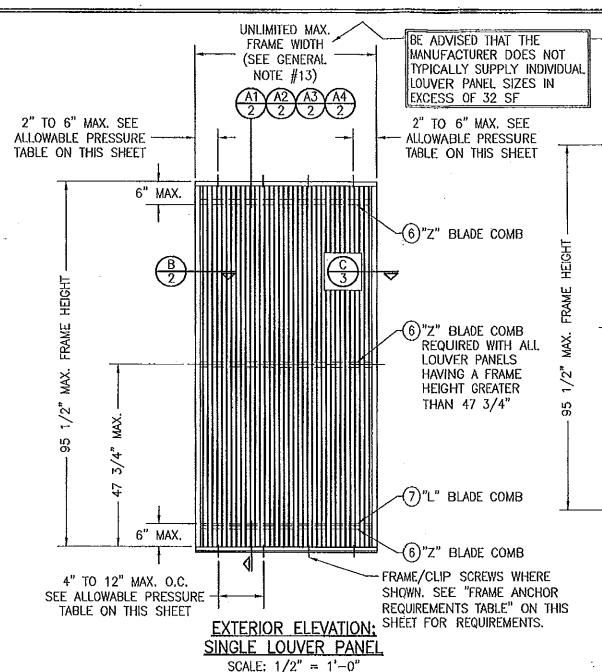
Product Control Examiner NOA No. 13-1017.03

Expiration Date: February 4, 2019 Approval Date: January 2, 2014



FRAME: THE HORIZONTAL FRAME MEMBERS RUN THROUGH WHILE THE VERTICAL MEMBERS ARE MITER CUT, BUTTED & SECURED WITH A CONTINUOUS WELD ALONG THE CORNER SEAM. EXTERIOR BLADE: THE BLADE IS SQUARE CUT & SECURED TO THE SILL VIA A 1/8" X 1 1/4" LONG WELD. FOR LOCATIONS SEE DETAILS B/2

& C/2
INTERIOR BLADE: THE BLADE IS SQUARE CUT & SECURED TO THE
FRAME VIA A SLIP FIT PROCESS WERE THE BLADE IS SANDWICHED
BETWEEN THE "Z" & "L" BLADE COMBS.



ALLOWABLE DESIGN PRESSURE & ANCHOR SPACING REQUIREMENTS (ALL LOUVER CONDITIONS)

ELEVATION.

	MAX. ANCHOR SPACING	MAX. ANCHOR END DISTANCE	ALLOWABLE PRESSURE
:	4"	2"	+/-150 PSF
	8"	4"	+/-75 PSF
	12"	6"	+/-50 PSF

SYSTEM

UNLIMITED MAX.

FRAME WIDTH

(SEE GENERAL

NOTE #13)

MULTIPLE UNIT NOTES:

'UNLIMITED MAX.

FRAME WIDTH

(SEE GENERAL

NOTE #13)

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT

EXTERIOR ELEVATION:

MULTIPLE LOUVER PANELS

SCALE: 1/2" = 1'-0"

2. THERE IS NO LIMIT ON THE NUMBER OF SINGLE LOUVER PANELS THAT MAY BE COMBINED HORIZONTALLY INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED BY THE PANELS.

3. INDIVIDUAL LOUVER PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE LOUVER PANEL ELEVATION OF THE SINGLE PANEL E EFER X HASA

PRODUCT REVISED es complying with the Florida CCENSE Appende No [1-/117.08 441 Expiresion, Quie 02/04 TO THE PR Mismu Dade Product Control

PRODUCT RENEWED ts complying with the Florida Building Code Acceptance No 13. Papinsing Date 02/04/2019 This Missis Dada Product Costrol

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUC SPECIFIED, THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS. W. SCHAEFER
CONSULTING, F
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PALM BEACH CARDEN
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CHECKED BY

11/12/08

ORAWN BY:

1×24

INDUSTRIES

UNITED

ARROW

LOUVER

IMPACT

-81

see single unit

REQUIREMENTS AT

HEAD & SILL OF

ELEVATION FOR

FRAME/CLIP

EACH PANEL

ANCHOR

RSIDE DRIVE 3, PA 18853 76-1888

1624

SHEET NO. OF

FRAME/CLIP SCREWS OPENING TYPE FRAME/CLIP TO OPENING MINIMUM MINIMUM (SUBSTRATE) FÁSTENER TYPE EMBED EDGE DIST MIN. 2X_ WOOD FRAME OR BUCK MIN, NO. 10 SMS OR WOOD 3/4" 1/4 (MIN. GR. 3 & G=0.55) **SCREW** 1/2" MIN. 16 GA. 33 KSI METAL STUD MIN. NO. 10 GR. 5 SELF TAP/DRILL SCREW FULL MIN, 1/8" THK A36 STEEL MIN. NO. 10 GR. 5 SELF TAP/DRILL 1/2" **FULL** SCREW OR 1/4" BOLT (1) MIN. 1/8" THK 6063-T5 ALUM. MIN. NO. 10 GR. 5 SELF TAP/DRILL SCREW 1/2" FULL (2) 1/4" CONCRETE SCREW 3000 PSI CONCRETE 1/2 2"

FRAME ANCHOR REQUIREMENTS TABLE

- (1) BOLTS SHALL BE MIN. A307 GALVANIZED OR 304 S.S. (FV = 10,000 PSI MIN.)
- (2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED"HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.)

